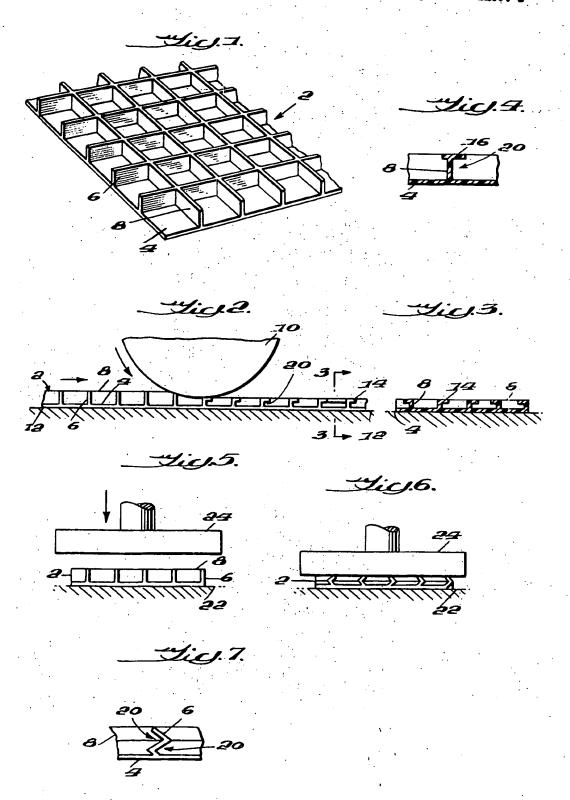
L Number	Hits	Search Text	DB	Time stamp
1	402	tile near3 grid	USPAT	2002/03/26
2	6	(tile near3 grid) and mud	USPAT	2002/03/26
3	0	6161353.URPN.	USPAT	2002/03/26
4	29	("1594261" "1778345" "1930024" "3008256" "3533896" "3800335" "3817012" "3869735" "3883631" "4290248" "4318258" "4324605" "4557004" "4612238" "4932182" "5014488" "5052160" "5052161" "5140789" "5185117" "5255482" "5371980" "5459966" "5511346" "5816005" "5857297" "5914173" "5946878" "5954601").PN.	USPAT	2002/03/26

ANCHORING DEVICE OF THERMOPLASTIC RESIN

Filed March 27, 1967

3 Sheets-Sheet 1



United States Patent [19]

Thomasson

Patent Number: [11]

4,932,182

Date of Patent:

Jun. 12, 1990

[54]		LE FORMING AND STRUCTURAL YMENT DEVICE
[76]	Inventor:	John R. Thomasson, 5203 88th, Lubbock, Tex. 79424
[21]	Appl. No.:	433,857
[22]	Filed:	Nov. 9, 1989
[51]	Int. Cl. ⁵	E04F 15/14
[52]		52/601; 404/18
[58]	Field of Sea 52/601,	reh 52/318, 315, 387, 391, 144, 443, 181; 404/42, 44, 18, 28, 31, 34
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8/1989 Primary Examiner-Carl D. Friedman

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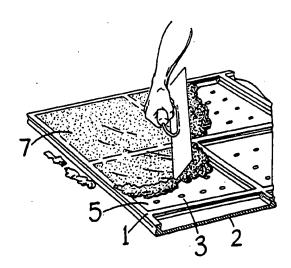
4,858,410

Assistant Examiner-Linda Jean Hoffert

ABSTRACT

A one piece molded plastic sheet is glued to a floor surface and properly fastened. As many more molded sheets are added to the first in building a complete coverage over the surface. A loose grout material is placed over the molded sheet and into numerous shallow enclosures which consist of a network of raised ribbing that intersect to form a variety of shapes and patterns on the surface. The grout material is levelled off at the top of the raised ribbing so the rib top would appear to be the grout fill characteristic of conventional tile. As the tiles which were formed from the fill material is hardened it is bonded to the molded sheet by special entrapping designs in the mold that prohibit its release. The device serves to structurally support the subfloor by being bonded to the subfloor covering its surface with a strong plastic that supports the subfloors lateral move-

9 Claims, 1 Drawing Sheet



United States Patent [19]

Evangelos et al.

[11] Patent Number:

5,014,488

[45] Date of Patent:

May 14, 1991

[54]	METHOD FOR INSTALLATION OF			
	BUILDING TILES WITHOUT ADHESIVE			
	MATERIALS AND STANDARDIZED TILES			
	FOR IMPLEMENTING THE SAME			

[76] Inventors: Grigoropoulos Evangelos; Vallianatos Evangelos, both of P.O. Box 3884, GR-102 10 Athens, Greece

[21] Appl. No.: 446,623	[21]	Appl.	No.:	446,623
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[22]	Filed:	Dec.	6,	1989
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	E04B 1/00; E 04G 21/00
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Primary Examiner-James L. Ridgill, Jr.

] ABSTRACT

The present invention relates to a new method for the installation of building tiles without any adhesive materials (fine grained sand and cement or glues) or joint fillers (e.g. stucco), directly onto a bare wall or floor without any prior preparation of the latter. This method shows substantial advantages and is implemented using frame-plates mountable onto the wall or floor and standardized tiles with engagement means, suitable to match corresponding engagement means of the frame plates.

An illustrative view of the installation process with the frame plates and tiles of the invention is presented in FIG. 16.

5 Claims, 4 Drawing Sheets

